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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/770,432	02/02/2004	Adam Leslie Clark	40006997-0007-002	3364
26263 7590 02/20/2008 SONNENSCHN NATH & ROSENTHAL LLP P.O. BOX 061080 WACKER DRIVE STATION, SEARS TOWER CHICAGO, IL 60606-1080			EXAMINER AGHDAM, FRESHTEH N	
			ART UNIT 2611	PAPER NUMBER
			MAIL DATE 02/20/2008	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/770,432

Applicant(s)

CLARK, ADAM LESLIE

Examiner

Freshteh N. Aghdam

Art Unit

2611

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 14 December 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on December 14, 2007 has been entered.

Response to Arguments

Applicant's arguments with respect to claims 120 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-2, 6-9, 11-12, and 16-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Freeman 9US 6,373,890).

As to claims 1-2, and 20, Freeman discloses a method and/ or apparatus comprising encoding data values described by one or more multi-dimensional

parameters , each of the multidimensional parameters having multiple constituent sub-parameters of more than one value (in this case two colors); mapping the multi-dimensional parameters of the data values to respective one-dimensional parameters having one of the single sub-parameters by which the multi-dimensional parameters will now be represented (Col. 3, lines 21-30); creating a table of encoded data values (Fig. 6) in which the data values are represented by their respective encoded counterparts utilizing the one-dimensional parameters (Col. 3, lines 52-64) and in which redundant ones of the encoded data values share common table entries (Col. 3, lines 56-60; Abstract); and storing said table in a computer readable medium (Col. 3, lines 56-60; Col. 13, lines 5-10).

As to claims 11-12, Freeman discloses a method and/ or apparatus comprising encoding data values described by one or more multi-dimensional parameters , each of the multidimensional parameters having multiple constituent sub-parameters of more than one value (in this case two colors), in which combines a lossy encoding process by mapping the multi-dimensional parameters of the data values to respective one-dimensional parameters having one of the single sub-parameters by which the multi-dimensional parameters will now be represented (Col. 3, lines 21-30); creating a table of encoded data values (Fig. 6) in which the data values are represented by their respective encoded counterparts utilizing the one-dimensional parameters (Col. 3, lines 52-64), with a lossless encoding process in which redundant ones of the encoded data values share common table entries (Col. 3, lines 56-60; Abstract); and storing said table

in a computer readable medium (such as CD-ROMs; Col. 3, lines 56-60; Col. 13, lines 5-10).

As to claims 6 and 16, Freeman further discloses transmitting the encoded data values to a receiver to be decoded/ decompressed (Col. 3, lines 56-60).

Note: since claims 8/ 18 and 9/ 19 are directed to two different embodiments/methods see paragraph 25; therefore, the examiner interpreted the generic claims 7/17 differently with regards to dependent claims 7/ 17 and 8/ 18.

As to claims 7-8 and 17-18, Freeman further discloses decoding/ decompressing the encoded/ compressed values using the encoded values and a set of reference information (Col. 3, lines 60-64), wherein the reference information is transmitted together with the table of encoded data values (Col. 3, lines 60-64).

As to claims 7, 9, 17, and 19, Freeman further discloses decoding/ decompressing the encoded/ compressed values using the table of encoded values and a set of reference information, wherein the reference information is stored at the receiver prior to the transmission of the table of encoded data values (Fig. 9, means 122; Col. 13, lines 19-21).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and

the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 3 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Freeman, further in view of Lim (US 5,339,164).

As to claims 3 and 13, Freeman discloses all the subject matter claimed in claims 1 and 11, except for the data values being position information. One of ordinary skill in the art would recognize that the multi-dimensional data values that may be mapped/ compressed to one-dimensional values comprise pixels, position information and color as it is evidenced by Lim (Abstract; Col. 19, Lines 56-67) in order to minimize the amount of digital data required to adequately represent image and enhances the speed at which the data can be communicated (Col. 1, Lines 26-35). Therefore, it would have been obvious to one of ordinary skill in the art to combine the teaching of Lim with Freeman for the reason stated above.

Claims 4-5 and 14-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Freeman.

As to claims 4-5 and 14-15, Freeman discloses that the redundant ones of the encoded data values share common table entries (Col. 3, lines 56-67). Freeman does not expressly disclose whether the redundant ones of the encoded data values are identical or similar to one another within a tolerance range/ limit. One of ordinary skill in the art would recognize that the redundant ones of the encoded data values are either identical or are similar to one another within a tolerance limit. And also, since the

amount of the tolerance limit is not specified in the disclosure of the invention; therefore, the tolerance limit could be extremely close to zero or even zero. Moreover, one of ordinary skill in the art would recognize that if the redundant ones of the encoded data values are identical to one another, then the accuracy / resolution of compression/ decompression mechanism increases but on the other hand if the redundant ones of the encoded data values are substantially identical (e.g. similar to one another within a tolerance limit this means loosening the definition of redundancy), then the storage resources are increased. Therefore, it would have been obvious to one of ordinary skill in the art to choose either one of the definitions for redundancy (redundant ones of encoded data values) depending upon the desired design requirement.

Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Freeman.

As to claim 10, Freeman discloses that reference information comprises a RAM (random access memory). One of ordinary skill in the art would recognize that RAM could be used as a lookup table in order to replace a runtime computation with a simpler lookup operation. Therefore, it would have been obvious to one of ordinary skill in the art to use a RAM as a lookup table for the reason stated above.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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Nguyen et al (US 6,016,360) see column 7, lines 51-62; and Sekino et al (US 2003/0231802) see paragraph 24.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Freshteh N. Aghdam whose telephone number is 571-272-6037. The examiner can normally be reached on 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chieh Fan can be reached on 571-272-3042. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

February 7, 2008

Freshteh N. Aghdam
Examiner
Art Unit 2611


CHIEH M. FAN
SUPERVISORY PATENT EXAMINER